

(11) EP 0 883 415 B1

EUROPEAN PATENT SPECIFICATION

(45) Date of publication and mantice of the grant of the patient; 02.03.2002 Bulletin 2002/18

(51) to CL?: A81M 15/00 (36) International application number: PCTIUS97/01562

(21) Application surries; 97904136.5 (22) Date of Likey, 13,02,1977

· · · · ·

(12)

(97) International publication number: WO 97/30743 [25.05.1997 Gazardo 1997/37)

(54) POWDERED MEDICATION DOLALER INHALATOR FOR PULVERARTIGES MEDIKAMENT INHALATEUR DE MEDICAMENTS SOUS FORME DE POUDRE

(B4) Designated Contracting States: AT BE CH DE DE ES R FR QB GR DE IT LI LU H, FT BE Designated Extension States:

(30) Priority: 21.02.1996 US 604549

(73) Proprietor: SCHERING CORPORATION
Kentheorth New Jersey 67033 (US)

415 81 8 (72) Inventors:

• AMERICAIO, Thurnes, J.
Sommerville, NJ CEXTE (US)

• BERSON, Warres, A., Jr.
Weedville, WI SACZE (US) DAO, IOR, C. Wayne, NJ 67470 (US)

KENYON, Cavid, J.
Morristown, NJ 97909 (US)
 KNEISEDER, Water, J.
Barrington, N. 60010 (US)
 SCHOKEBAUM, Theodore, J.

Barrington, B. BOUTO (LTS)

SCHONERALIM, Theodorn, J. Monomenta, WI 54731 (LTS)

VOCES, Alies, J. Long Grown, B. 60047 (LTS)

WALKER, Londs, B. Monoments, WI 54731 (LTS)

Manacheele, Wi 54751 (L. - YANG, Teorg-Tob Warren, NJ 07059 (LIS)

(74) Representative: Ritter, Stephen David et al Matinya & Squitre 100 Gray's Ins Road Landon WC1X BAL (GII)

(56) Reterences cited: EP-A- 0 852 022 US-A- 4 807 683

Note: Within rise croutile from the publication of the results of the grant of the European potent, any person arey give robus to the European Pearst Other of appealation to the European potent granted. Notice of appealation each to last the section reserved potentials, it shall not be deemed to have been died until the apposition fee has been pald. (Au. 1961) European Pearst Convication).

-

EP 0 683 415 B1

[DOTIS] In excertaince with an expect of the present lowerious, to provider dependent reluction a mapply for helding is explyl of provident distinction conduct in a supply or present to exceed the expect of the present of the present of the expect of present of provident materials and the expectation conduct, and a social connected or an article of the expect of the expect of present of provident materials with the expect of present of provident materials and the expect of present of the expect of t

EP 0 833 415 B1

Descriptions

BITCOLCTION TO THE REVENTION

(COOT) The present enveron-relative generally to produce degrees essemble and many in product depresses essembly used to inheritative presently to produce degrees essembly used to inheritative presently to produce degrees essembly used to inheritative presently to produce degrees essembly used to inheritative presently to expect the produced mandatures.

(COOT) When collecting predictaments, this is, primarecologically specific enveropeach, in edit hims to be required; the course of the declaration to the course of the declaration in the de

EP 0 883 415 B1

2

by we at of the all heat on totaling incose during measured and the lower ramp portion televisity bisease the at least one spring there and of the at least one southing measured and the lower ramp portion televisity bisease the at least one spring there and of the at least one southing necess activities.

[0202] Each daying their includes a depresent which receives the projection postion when the clearer cape is they accorded in the covering patition.

[0203] South application protein status for a depresent invention, in actition to the elementation protein particular to the covering patition to the restancial protein particular to the several protein particular particular to the several protein particular particular

Dis paies spring scheding story a gamerary ratio orno-tion.

[20233] In one embodiment, the paiest spring has a gen-erally L-shapest configuration. In another embodiment, the paiet spring has a speniasily linear configuration and sturned as an embodiment story in the foreign seal, in above case, the paiet spring has one and inte-grally another of the super portion of the inner author of the cutor wall.

[20234] The above and other fastures of the inner seation will become readily appears from the following abouting— the off an embodiment within its to be read in connection. Us with the accompanying disastign.

BRIEF DESCRIPTION OF THE DRUWINGS

Fig. 1 is a perspective view of a metered powder dose dispenser according to the present invention; Fig. 2 is a perspective view of the mississed powder dose dispenser of Fig. 1, with the closure cap re-

moved; Rg. 3 is an exploid perspective view of the me-tered preview dose dispenser of Fig. 1; Fig. 4 is a temptational cross-sectional view of the material provide dose dispenser of Fig. 1; Fig. 5 is a tem (averdous view, partially in cross-section, of the reserval tody of the metered powder dose dispersed of Pip. 1; Fig. 6 is a top plan view of the reservoir body of Pip.

Fig. 8 is to point view of the reservoir body of Fig. 8:

Fig. 7 is a bottom plan view of the reservoir body of Fig. 1:

Fig. 8 is a bottom plan view of the reservoir body of Fig. 8:

Fig. 8 is a bottom body has 8 it inswer;

Fig. 8 is a long har view of the reservoir plany of the watered powder does dependent of Fig. 1:

Fig. 10 is a bottom plan view of the meanwood plany of Fig. 1:

Fig. 10 is a bottom plan view of the meanwood plany of Fig. 9.

Fig. 10 is an extra selectronic view of the meanwood plany of Fig. 9.

Fig. 10 is an extra selectronic view of the meanwood plany of Fig. 9. Indeed from the 11-11 thermood;

Fig. 10 is an extra selectronic view of the meanwood plany of Fig. 9. Indeed with 51-15 thermood;

Fig. 10 is an extra selectronic view of the whirein body of the meanwood provider class displacement of Fig. 1;

Fig. 10 is a bottom plan view of the ordering body of Fig. 1.

14;
Rg. 16 is a bottom plan view of the driving body of
Rg. 14;
Rg. 17 is across-sectional view of the driving body
at Fig. 16; takes along line 17-17 thereot,
Rg. 13 is a cross-sectional view of the driving body

in a construction of the 18-18 formers;

Fig. 19 is a conservencement where of the others below of Fig. 19 is a conservencement where of the others below of Fig. 19 is a conservencement where of the others below of Fig. 19, College and the conserved of Fig. 20 is a conservencement where standard or one of the conner for years;

Fig. 21 is a conservencement where standard or one of the conner for years;

Fig. 22 is a top plan view of the matering does place of Fig. 22, below of the matering does place of Fig. 22, below of the matering does place of Fig. 22, below of the matering does place of Fig. 22, below of the matering does place of Fig. 22, below of the matering does place of Fig. 22, below of Fig. 22

cose pixes of Fig. 54A, taken along the 24C-54C thereot;
Fig. 55D is a cross-sectional view of the metarting does pixes of Fig. 24B, taken along fine 24C-54D thereot;
Fig. 34E is an enlarged cross-sectional view of a portion of the metarting does pixels of Fig. 25C;
Fig. 24F is an enlarged cross-sectional view of a portion of the metarting does pixels of Fig. 25E;
Fig. 25 is taken pixel view of the beast of Fig. 15B, 25B is taken on the metarting powder does dispenses of Fig. 15B, 25B is taken pixel view of the beast of Fig. 25;
Fig. 25B is taken pixel view of the beast of Fig. 25;
Fig. 25B is taken pixel view of the beast of Fig. 25;
Fig. 25B is taken pixel view of the beast of Fig. 25;

25; Fig. 28 is a side eleverthroad view of the base of Fig.

25; Rg. 29 is a cross-sectional view of the base of Fig. 25, taken along line 29-29 thereof; Rg. 30 is a bottom plan view of the lower spring re-tainer of the metared powder dose disperser of Fig.

1; Fig. 31 is a top plan view of the lower spring retainer of Fig. 30;

Pig. 31 is top plan view of the bower ophing relatives of Fig. 30; Fig. 32 is a disk elevational view of the bower apring recibiler of Fig. 30; Fig. 33 is a cross-sectional view of the bower apring recibiler of Fig. 30, balan strong thre 33-35 thereof; Fig. 35 is a cross-sectional view of the bower apring recibiler of Fig. 30, balan strong the 33-36 thereof; Fig. 35 is a top plan view of the support plate of the recibiler of Fig. 32; Fig. 35 is a bottom plan view of the support plate of Fig. 35 is a bottom plan view of the support plate of Fig. 35.

EP 0 843 415 B1

Fig. 8-8 is a cross-actional view of the poart screen-bly of Fig. 84, tables through the 88-95 through. Figs. 684-995 was brighteded cross-sectional develope of a portion of the material provider cross-despenses, showing dusting of the care during or a special Street. The company of the care during or a Figs. 50% and 80% or embryand cross-sectional drawlage of a portion of the material (provider class-despenses, during the street of Figs. 150C and 85K, 19

Fig. 10.3 and 100 are estimpted cross-sectional changes of a profits of the meaning profit of the pr

wall 43, Specifically, chamber wall 43 is farmed by a bos-or chamber wall portion 50 state-drip spenarby from cis-ciant is to wall 34 and an upper chamber wall proton 52 chamber wall portion 50. The steepes of wall proton 50 and 52 are authorishly belancial, to with the leaver demo-sions of upper said portion 52 being less than the leaver dimension of there wall portion 50. As result, a than-der 54 to betweet 62 to be the steeper wall content 52.

EP 0 883 415 B1

Pig. 37 is a conse-sectional view of the support plate of Pig. 35, claim along the 37-37 theseot.
Pig. 38 is a cross-sectional view of a proton of the creatively does plats, support plate and powder for balance according to an alternative entrodement of the section of the cross-section plate and powder of the creatively does plats, support plats and powder of balance according is service administer of an powder of the necessity does plate, support plats and powder of the present inherenative.
Pig. 40 is a time development when of the adligator of the national powder does departed of Pig. 40;
Pig. 42 is a bottom plan view of the adligator of Pig. 40;

Fig. 42 is a common pain view of the badgers of Fig. 45, Fig. 43 is a true has view of the adaptar of Fig. 45, Fig. 44 is a cross-sectional view of the adaptar of Fig. 45, batters stong liss 44-44 thereof; Fig. 45 is an entargued cross-sectional view of a por-tion of the adaptar of Fig. 41, showing the window

this of the adapter of Fig. 41, sheeking the whitcher these of the plan view of the solid rescribe of the restrict power does depended of Fig. 1; Pig. 47 is a bottom plan view of the self rescribe of Fig. 49; Pig. 47 is a bottom plan view of the self rescribe of Fig. 48; Pig. 48 is a side attentional view of the self rescribe of Fig. 49; In a consequential view of the self rescribe of Fig. 49; Totals a leafly the 43–49 thereof; Pig. 50 h is a consequential view of the confidence of Fig. 50 h is a consequent view of the confidence of the entire rescribe the deliving locally. Pig. 50 h is to pipen view of the manipulation of the maintain power does depurse or Fig. 1; Pig. 52 h is a respectional view of the sensiplesco

material powder dose dispresser of Pig. 1;
Pig. 12 is a trous-sectional wire of the insulfriplece
of Pig. 51, taken along law 52-62 threater.
Pig. 61 is a cross-sectional wire of the insulfriplece
of Pig. 51, taken insulty law 52-52 threater.
Pig. 61 is a cross-sectional view of the insulfriplece of
Pig. 61;
Pig. 61 is a bottom plan view of the insulfriplece of
Pig. 61;
Pig. 61 is a bits insuredonal view of the chosure cap
of Pig. 61;
Pig. 62 is a bits insuredonal view of the chosure cap
of the material powder dose disputement of Pig. 1;
Pig. 52 is a bottom plan view of the chosure cap of
Pig. 62;
Pig. 63 is a top plan view of the chosure cap of
Pig. 64;
Pig. 64 is a top plan view of the chosure cap of
Pig. 64;
Pig. 64 is a top plan view of the chosure cap of Pig. 64;

56;
P.G. Silv is cross-sectional view of the closure capof Fig. 37, taken along lave SS-65 themos;
P.G. Cit is cross-sectional view of the closure capof Fig. 35, taken along lave SS-65 themos;
P.G. SI is a pempection view of a braw inverse portion
of the closure cap of Fig. 55, showing one can them.

ear; Fig. 62 is a cross-sectional view of the closure cap

of Rg. 58, taken stong him 62-62 thereot;
Rg. 60 is a cross-excitoned stem of the closure cap
of Rg. 60, taken shoulp her 62-63 thread;
Rg. 60, taken shoulp her 62-63 thread;
Rg. 60 is a bottom plan stem of a capatract incloser
of Rg. 60, taken shoulp her 62-64,
Rg. 60 is a cross-excitonal view of the desticons
hottler of Rg. 65, taken shoulp her 62-65 thread;
Rg. 60 is a trop-len view of the continuous counter
ofting of the montrod provide cross-deposed of Rg. 17,
Rg. 60 is a toother plane view of the continuous counter
ofting of Rg. 67, taken shoulp her 62-65 thread;
Rg. 600 is a toother plane view of the continuous
counter fing of Rg. 67, taken shoulp her 63-65 thread;
Rg. 600 is a cross-excitonal view of the continuous
counter fing of Rg. 67, taken stong her 63-65-65
thread;
Rg. 600 is a cross-excitonal view of the continuous
counter fing of Rg. 67, taken stong be 630-650
thread;

hareof: Pg. 70 is a cits elevational view of the confluence course ring of Pg. 67; Pg. 71 is step has were of the intermediant countrar ring of the meliand powder dose dispense of Pg. 1; Pg. 72 is a button plane view of the intermediant countrar ring of Pg. 71; Pg. 73 is a new-sectional view of the intermediant counter ring of Pg. 71; Pg. 73 is a new-sectional view of the intermeliant counter ring of Pg. 71; Internalized counter ring of Pg. 72; Internalized counter ring of Pg. 73; Internalized counter ring of Pg. 74; Intern

Fig. 73 is a cross-sectional view of the historialization counter ring of Fig. 71; these selection for 7-7 23 benefits counter ring of Fig. 71; these selection for 7-7 23 benefits of counter ring of Fig. 71; Fig. 73 is a top plant view of the historialization ring 7-7 and 7-7 a

of Pig. 80; Pig. 82 is a side elevational view of the past assem-bly of Pig. 60; Pig. 63 is 8 cross-sectional view of the past assem-

by of Fig. 80, taken along line 83-83 than Fig. 84 is a top plan view of the panel sea cooking to another embodiment of the p PQ, be a monthly embodiment or many control in another control in another embodiment or many control in PQ, 85 in a bottom plane view of the panel assembly of PQ, 84; PQ, 85 in a vide selevational view of the panel assembly of PQ, 84; in CR, 84; in the action of the panel assembly of PQ, 84; in the action of the panel assembly of PQ, 84, totals along the 87-87 bereof;

EP 0 823 415 B1

the upper and of excursing vall 744.

[DOSS] As will be understood from the cheartylater beninstriat, it is recessary that the lower entities of circular tops of 24 be as a month on prostich, talk is, with very law underlaters therein. However, this is efficient to design the control procedure for the monthly greater with monthly greater with monthly greater with monthly greater by the problem, as shown in Fig. 11-13.

[DOSS] As an element place of the shown carbon of the problem is meanwhigh gib to be proceeded, as shown in Fig. 12, and in 13.

[DOSS] Therefore, the control of the problem is meanwhigh gib to be proceeded, as shown in Fig. 3, and in 13.

[DOSS] As an element place of the shown carbon to the heart and the cheese is very amount to their demands of open annuals and problem is a few places of the cheese and the problem of the investment of cheese place to 24 effectively in that the estimate of the problem is a control place of the cheese and the problem of the cheese and the problem of the cheese and the problem of the cheese and the cheese a

• r

. .

[DOST]. In order to both reservoir body 22 and driving body 120 trigother is each position, the schildy present approach of the control present in each position, the schildy present formed primate in each position, the schildy present formed primate in each position, the schildy present 130, on the lesse authority may 130 seventher within a children and manifer federing man 130 seventheres. This, who is manufact footy 21 is heartest while driving bedy 120 in the common disorder of decrease in sentiment property of the project of the project

DORTY to this regard, manning come pints 180 has a discuster shadow recease 153 at the understands of this discuster shadow recease 150 by concentric with material content of the host 154. Powder retainer 188 has a clocular configuration, which is no super densinate treat the of method does host 154. Powder retainer 188 has a clocular content of the history of the configuration which is a marker density of the history of the configuration of the history of the configuration of the history of the

EP 0 883 415 B1

.

useful macrania including interest process places, per process polymer membranes, existent or explosition towards and another including interest and the Bio. More appointent, polymership protest macranish, and pomes membranes of polyter-finity, projectorisms, polymership polytest and polyter-finity process of the process of the polyter-finity process of the polyter-finity process of the polyter-finity process of the process of the process of the polyter-finity process of the process of the polyter-finity proces

EP 0 880 415 B1

10

conditioner manner on clocker top well 202. Specifically, second recides prevention period decear 222 excells from days 223 of detent apporting wild 223, parallel is and opposed show clockers to period 222 and parallel is and opposed show clockers to period 222 and parallel is and opposed show clockers to period prevention apply detent 221 is provided with an extraord recises 221 is provided with an extraord recises 221 is braned to deceale to period prevention apply detent 221 is provided with an extraord recises 221 is braned to deceale top and 224. As the contrast of period and the network of the contrast of the

. .

. .

[CODE] it will be appreciated from the actions of the contribution of the contribution

body 22 and with modely satewing size 312 of export pipes 300, noces 340 is in Alyment with other size 34 and recess 342 is in alignment with other size 34. As considering, securities on extend controls of Crosses 340 and other size 34 and through recess 340 and other size 34 and through secures 340 and other size 34 and through secures 340 and other size 34 and through recess 340 and size as sever of department 10. [1] (1) is active, two demarkating operation received in the 10 pipes 32 to exceeding the size 154, is a sever of department 10. [1] (1) is active, two demarkating operation received in 10 pipes 32 to exceeding the size 154, in a sever of department 10. [1] (2) is active, two demarkating operation received in 10 pipes 32 to exceeding the size 154 and 340 are intended to receive again and 342, are or exceeding size 32 and security size and 340 are sized to the security size of the s

EP 0 883 415 B1

central operating 402, as shown in Fig. 47, in a presently proteined errobodinest, this angle is about 165°, at 2004th bit value may change in patient of store the property present drop.

[DT123] Further, an exercise mescriptice securing wall attill is formed on the upper earther of circulate top wall 322, operated significial presently from the performed drop thereof, as a name, an arrober they act 50 is themed on the upper earther of discussing the 315 performed or the upper surface of decides top wall 124, celebrately of an arrober of the color top wall 124. Evolution in the performance of circulate top wall 124, celebrately of an arrober of colored top wall 124, celebrately of the state of celebrate top wall 124, celebrately observed in the state of the 124 per section of celebrate top wall 124. Further, an extract of the thinking (DT123]. Also, gear teach C44 are provided on the upper section of ordinate tops wall 440 and part to 420 per section of ordinate tops wall 440 and part to 420 per section of the tops of the celebrate of the tops of the 124 per section of the tops of the celebrate of the 124 per section of the tops of the 124 per section of the 124 per section of the 124 pe

to control opening 402.

[PT30] In order to break up the powder approximation, puts to excepting the same beingth supply channed to except the same of the provided commencing that is excepted the same beingth supply channed and the same of the sa

med 354 archarved and G0 yellon and condy 112. Rethou, the experimental colline will be must not are withinmalls in a material principy or industrumy action between
the applicamental colline will be expecually as the
thou that and second duties of personality as the
thou that and second duties of personality in the
thou that and second duties of personality in the
thou that and second duties of personality as the
thou that and second duties of personality as the
thin personal through the second duties of personality as accelerates momental of the
tili, respectively as accelerates momental of the proder egyponements in second second duties of the
tili, respectively as accelerates in the week delicity
and comprehensing to accelerate in the control of the
tiline provide application to second the control of the
tiline provide application and the provider of the control in tender
to personal through the personality of the provider application of the control in control
tiline provider application to the science described or
the control of the application of the control in control
authorities of vectors, provide of the control in control
authorities of vectors and provider of the control in control
authorities of vectors and provider of the control in control
authorities of vectors and provider of the control in control
authorities of vectors and provider of the control in control
authorities of vectors and provider of the control in control
authorities of vectors and provider of the control in control
authorities of the contro

EP 0 883 415 B1 29

EP 0 830 415 B1

borned by unchations, truring or he Da, to enhance the griging and rectalg of closure cap 520.

(D133) As discussed driver, chance cap 520 determines the principal content of principal code depenses to the resultant peach does declared the content principal of the content peach does depensed to the resultant peach does declared the content of closure cap 120, certainty, sector of the content of content of closure cap 120, certainty, sector 22 and 520, sector days a resultant of participal content content consumed to 22 and 520, sector day and 520, each of 120, and content con

. .

. .

an annulus also wall 564 extracting come have the perphylory Barred. An annulus ratios wall 564 is the bury and
thread for recording a date part indexing which tables is
dealchare, such as other bury the member of the place in the format and the outer question of member of the place indexing.
In the manuser, chalchare foot for its invented entitle dischared in 564 dates over procreates SSS, so that
desirence; pack to be in their selection of the place injunction, extender the 563 dates over procreates SSS, so that
desirence in 564 dates over procreates SSS, so that
desirence in 564 dates over procreates SSS, so that
desirence in 564 dates over procreates SSS, so that
desirence in 564 dates over procreates SSS, so that
desirence in 1646 dates the selection of the place injunction, and the selection of the place injuncduction in the selection of the place injunction of the selection of the place injuncduction in the selection of the selection of the selection of the selection of the selection
derived in the selection of the selection of the SSS of the selection of the SSS of the selection in the selection of the sel

36 EP 0 823 415 81

17

tools 602, thereby compressing spring 658. When the minute and the complete spring 659 is not seen of the presence of the control of sight amount and link the man days tools 604, which is a slong gene tools, the example, Specifically, oping 658 bits as part of 504, which is a slong gene tools, the example, Specifically, oping 658 bits as part of 504, and the print of 504, and the print of 504 bits to entire the 605 bits open tools, the example, Specifically, oping 658 bits as part of 504, and the print of 504 bits to entire the 605 bits open tools, and the print of 504 bits to entire the 605 bits open tools, and the print of 504 bits to be formed to 605 bits in the formed bit

with number "Y of Indiate IXD is from the number 130, which is reposed through Investment plants white the speed of through Investment plants white the speed of through Investment plants white the speed of through Investment plants white the number 112 and plant in the contrainers of 50 of totals contain in 150 of totals are other through white 200. After the number 112 me home plant the through the three three choices. After the number 112 me home plant the three choices. After the number 112 me home plant three three choices. After the number 112 me home plant three plants white three choices. After the number 112 me home plants white three choices. After the number 112 me home plants white three choices. After the number 112 me home plants white three plants w

EP 0 683 415 B1

apring 210 is compressed, the number "160" opposes prompt whiche 210 et also prompt 1500 by compressed, the number 1500 by compressed to the second and 400 et entires 200 and is subject to 200 and i

. ,

. . .

1. A powder binater comprising:

powder bitraker comprising:

Dees means for exporting componentic expoly means for holding a supply of periodinal materials to be disposed, as the control of the control o

- - is plursity of first conceive well excitons entend-ling is exist critical function and having an air, of is first reclus in a checkler transverse to eath statel direction, and is plursity of excent well excitons extending in eath direction and histoconsecting eath first conceive well sections.

EP 0 683 (15 B1

40 said cap means including at least two dismetrically opposite princing risk.

- said cap mass including at least the summapposite privacy fish.

 18. The provider inhalter according to defah, 14, clearant terms of years privacy and a term summappoint and at a least summappoint and a least summappoint and a least summappoint and all projecting positions and summappoints and a least one special provider and all projecting positions. As the section is tracted on the section of the sec
- Ty. The possible binative according to claim 16, claims participately seen said apring targer (163) including a copyrection which machines said projecting fronting and projecting fronting shake additionance reprintate to both generated in said covering matters.

 24. The possible binative according to claim 22, characteristic projection of the projecting fronting and covering matters.
- 13. The pounds inhalter according to chaim 14, characteristical by said other poly locating two chairs.
 29 25. The powder inhalter according to chair 22, characteristic species where processes in an utilizate of condition.
 29 25. The powder inhalter according to chair 22, characteristic that lawling formed in a plurality of span utilizate of condition.
 29 25. The powder inhalter according to chair 22, characteristic chairs.
 29 25. The powder inhalter according to chair 22, characteristic chairs.
 29 25. The powder inhalter according to chair 22, characteristic chairs.
 29 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 22, characteristic chairs.
 20 25. The powder inhalter according to chair 24, characteristic chairs.
 20 25. The

on excutor atits having an inner excitors,

and
it least one cash formed on a lower purition. 49
of the least suthice of prouder stat for iding within said at least one defical case
track.

- 23. The powder inhalar according to claim 11, charac-lerizate by each paid cann back lockading an entry portion defining to ventical days pare in which said at heat one can engage prior to permitting helical provened of each at least one care within said all least one can lack.
- The pre-distribute according to chain 13, ch including two of said helical cars tracks on of said carse.
- 22. The powder bristler according to claim S, charanterized by:

auld matering plate means having an underside with ribs thereon; gas permeable retainer means har retaining a dose of said proclamd material in self-metered dose hele means, said retainer means being positioned before seld materied dose hole

- 25. The powder inhalter according to claim 14, character as tertiand by:

 28. The powder inhalter according to claim 14, character as tertiand by each rish harbegs a solutionthilly biamquited cross-sectional configuration.
 - and adequate including at least one halload crim

 17. The powder binder according to chim 22, characreach bending a exclusivity square cross-ence
 toned condity and present including:

 27. The powder binder according to chim 22, characreach sold present by and present place and said give permanent
 able reclaims being formed by the stops of:

the relative being bernach by the stope of: positioning the gas permentile intolline of a pre-distantived permentile intolline of a pre-distantived permentile in a first order of a beginner metalling sale metalling global protectioning a second crotal basif aboveral self-test exist least to born a metaling disentile with colorisms used on highcon continuous and colorisms and one high-colorisms with self-natives, the permentile greaters with self-natives at self-protection and colorisms in self-stances of self-protection and colorisms. The leasering a core pin through self-colorisms are with self-noise in brough self-colorisms with self-noise metal-self-colorisms.

and injuring plants; meanint has said existing transfer through at heat one injection part to said sealering place with and commend does not not seen and commend paths in on contention of each commend paths in con-oring million to said engined drow train,

- the trade by sald curves we said top wall.

 4. The provider inheliate excepting to chairs 1, characterized by sald-chrimmy means having scentral and is and said inheliation resulch flaving a creatal said parallel in an edifies from the ocernal cate of said charving means.

 4. The provider inheliate according to chairs 8, characterized by all tests one of said characterized and said 49 means having lampte corresponding to respective ones of said recesses.

porton thereof; and (b) sald means for carrying sald predetermined amount of sald powdered meterial beduding:

nount of sald powdered metaful including:

marketing place means (180) for holding a
marketing amount of sald powdered metaful
at, said entering place means tockuling
makead does hold on means tockuling
makead does hold on means to holding sald
makeand senses of sald powdered metaful
easilo makeng place means being posiflowable better sald staypt of pombered 32
makentul, and said meatering better means
and sald powder bousting means being relstory to-discounties; satisfacts with respect to such other should a common cermeans can be placed in bott communication solucionals of sald sald protected does holdmeans can be placed in bott communication solucionals sold said sald protected comtion solucionals set to said staypt of powdered material or said triulation conduit.

(c) a spring means (200) bitsing sald meaning of picco means and said powder housing seasons toward such softer; and (d) said such means being meaned to said shifting body for recording said method emount of said powder material through said freshing body to recording said method of said powdered materials through said freshing for contrast, and nuzzle means technicing the means weight of the said recesses of said driving body.

britzed by sald curved used being connected with sald top use.

11. The provider inhalter according to chairs 1, chemistrated by sald top use tending a character configuration, and said increases being arranged along a common according to chairs 1, chemistrated by sald-chirmway means having a certifial as-

As sald aupply means comprising:

Description of the production of the compact of

and diffring body including at least one of fring necess with a spring finger (185) in each diffring necess with a spring finger (185) in each diffring necess; an educator inconstructural policy means, wait adaptor in seld metarting plate means, wait adaptor in bedding at least see budding necess for including aid at least one garing finger thereto to provent necessing means evalutive to said eleptor and seld metarting plate means; and

rotation of said previols housing means established in said ordays and said material piles meatrix; and its said ordays and said ordays glabs meatrix; and said officers cap instant including priming means for rotating said previole housing means such that said instead does had necessary and the contraction of the contraction with said meatred does had previole means and the rotating said previole housing means such that said insteaded one had commenciated with said ordays cap means in an article said priming means such material colorest housing means such material colorest housing means within said obstant cap means in an article said commenciated with said ordays cap means in thicking at least one priming flowers of said said least one boding places, said priming means includes in said meaning prices of said adaptive to enable ordination of said previole housing means articles in said meaning places are of their groups or notate and pendaments.

19. The pewder inhalter according to claim 9, charmon 29 19. The prouder inhalter according to claim 14, charmonated by said diffring body harding a key wall, and said recesses being annuaged annuaged and a factor including the claim of the charmonate of the charm

EP 0 003 415 B1

22

23. The method of claim 27, observationtzed by salid motified measuring pitch leaving a shallow recease termed at the underside threated is currentifing re-lation to the method does bole, and easi powder recent heaving disnaturines greated them and one—il-tered does bole in completely cover salid measured does hole and less than called devider recease so ea-to be secured to salid measuring pitch in salid shallow recess.

29. The powder interer according to claim 9, characterised by said time means including:

town by an love interest rectangly, and the horizon could be an extended on the said common and the said country count

counter ring means for providing said vis-val count, said counter ring means being rotation stored common neural data and having country include townson to dis-pringing said visual count, said counter ring transping said visual count, said counter ring means including:

24

time that a dose of the positioned material is dependent to display endoting one of salds countries placks of sald contrivence of salds contrivence and contrivence countries prough sald depicing means, and to returning said transmittent counter drug one is creament every predictament and control returning all becomes of extractional incurrence of each controlled countries drug to their present event of saids countries, brightly sached or said strammtimes countries from their presents event of saids countries, or their presents and display means, each parel means including:

seen including:

an other will having an outer surface
and an inner surface,
a peak, integrally excited as a single
place with the outer surface of said
outer walk, for employment within low
pear stock of outer surface of said
outer walk, for employment within low
control frequent and lowerstanders
control frequent and beamstanders
outer and a series of the control
outer and outer surface of
and outer walk, for beloning said pare
into employments with said gaer stock
into design controlance occurrie ring and
asid intermitational control ring and
asid controlled and asid intermitational control
outer and asid controlled and asid intermitational control
outer and asid controlled and asid intermitational control
outer and asid controlled and asid intermitation controlled and
asid controlled and asid controlled and
asid intermitation controlled and
asid intermitation and asid part such asid
asid controlled and asid intermitation and
asid controlled and
asid intermitation and asid part such asid
asid controlled and
asid intermitation and asid part such asid
asid controlled and
asid intermitation and asid part such asid
asid controlled and
asid intermitation and asid part such asid
asid controlled and
asid intermitation and asid part such asid
asid controlled and
asid intermitation and asid part such asid
asid controlled and
asid intermitation and asid part such asid
asid controlled and
asid intermitation and asid part such asid
asid controlled and
asid intermitation and asid part such asid
asid controlled and
asid intermitation and asid part such asid
asid controlled and
asid intermitation and asid part such asid
asid controlled and
asid intermitation and asid part such asid
asid controlled and asid part such asid
asid controlled and
asid part such asid
a

a continuous coorder drig beining conding indicia Dieseum and gain teach latered theresenium and gain teach latered theresenium and indice septice thereof, and on an interese septice thereof, and on the septice thereof, and on the septice thereof country and in intermether country and contribute country and in intermether country and contribute country and in intermether country and contribute the septice of shall country thereof the septice country to chain 29, chemistrated by said partition principles of said interest and interest thereof.

on an lever surface treated, section of each cabe wall.

33. The power inhalter countrier ring events in deplayed to lecture a country expending to a surface of closes of previous creates the base depasted an electure present of the countrier stand of closes and calculating research for incommendately relating research for incommendately relating research for incommendately relating research and self-united relating paties research and self-united relating research and self-united relating research and self-united relating relating to present anneal recogning with self-united relating relating to present part of the self-united relating to the part of countrier in the present part of the self-united relating to the self-

. .

- The power instate according to claim 25, charmoteritod by said schedug meetre harbor inducting
 pand offere meetre to incurrently statisfic said
 pand meet, said pand dever exemite including a retabler rectably souther on said bears rectably with
 said contribute constate rang and said branchitants. If
 courter sing, said notative including that pand offere
 meets to incurrently statis said pand pand
 meetes to increase the organism of the said of said pand
 meetes to increase the organism of the said of said pand
 meetes to increase the organism of the said of said pand
 meetes to increase the said of the rectable of said pand
 meetes to be constant or engaging an expossion
 of pand dever in a second, opposite notational devotion at the eard of section of said rectame since
 the said of section of said rectame since
 on, opposite notational devotion at the eard of section of said rectainer since
 on, opposite notational devo-
- 38. The powder inhalter according to claim 29, characterized by seld incitols being oriented in an actal direction of seld initialer so that seld indicin can be read when seld initialer is vertically oriented.
- 17. A number inhalar according to chain 5 comprising.

powder tousing means (20) including sald sup-plymeans (20) and sale inhalation-conduit (63), 25 the powder housing means further comprising :

a reservoir body including a supply of poss-dered material (AZ) and a dailing body (LXZ) secured to said reser-wis body for dishing safe reservoir body in a rotational direction, eaid othing body in-cluding:

a plansity of recesses to an upper pos-den itement; at least one driving recess in a lower porter thereot; and a spring truge in each said cloking re-cess;

metaring pisto meers (180) for holding a me-tured arouse of each pseudored material, each as enstating pisto meers including material does hole means for holding sold metarial amount of sold powdered excitatil, sold met

ca)

means being possibiredate bester sald supply of periodicular ministral, and cald mississing possibilities and cald mississing possibilities and cald mississing possibilities and periodicular processing with respect on each other should a continue celeral sink see and ministrated does been removed on the passibilities of the sald ministral does belt minister and passibilities and particular disease but present a control, and ministral point or retaining an observation control, and ministral point for retaining an observation of any permitted certainer means for retaining a dose of adult producted migrated in seath removed dose to the ministral entainer means the animal sease and in overlaph protection do belt well on the cells of the cells of the cells of the sease and to seath or ministral possibilities of the sease and to seath or ministral possibilities of the sease of the seath of

wherein eaid nezzie means is mounted to seld of log body and further comprises ris means well in axid recesses of sald driving body; the appendite further comprising:

no achipter non-rotatelyly invasted with respect to eaid matering plate means, said adapter induting

at least one locking recess for receiving said at least one spring throw therefor prevent rotation of said promoter hearing course relative to said adaptar and said reterring plates manns, and at least one helical com track having a sea-standially agains cross-sectional configu-nation;

wherein said chosen cap meens (520) is arranged for priving said powder inheler for see, and closure cap meens including:

presents recountry printing means such frost said inhabition consult is in current of the said inhabition consult is in current of the said inhabition consult is in current of the said chases of the said chases of the said posted means when said chases on the mattery and posted posted from covering saidten of said posted housing means auth that said inhabition containing means auth that said inhabition contains the said inhabition of said in said conventionalism with said inhabition of the said in the said with the said inhabition of the said in the said posted housing means, each printing means including at least said posted in least one spring finger said of said at least one spring finger said of said at least one locking

EP 0 883 415 B1

necess of said accipier to enable relation of said periode housing means enables to said makentry pictie means and for engoging with said at
least one defining recess to make add previous
frequency means maken to eath meaning plant
an eventure station housing as hower surface; and
an eventure station being as hower surface; and
at least one come formed on a towns portion of
the freet surface of any surface surface surface
and the surface of any surface
the surface of any surface
to the freet surface of any surface
to the surface of any surface
to the surface of any surface
to the surf

wheele said base means has an actify extending retaining post therein couple with said common so-in and non-recording connected with said metarlog plate means, the apparatus further completing.

courter means, rotately mounted on said base in sursurding nation to sale nataling past, to providing a visual court of the number of closes of said positions material that have at base disposed or reveals to be disposed in response to said relative rotation of said position for the providing means and east message plate weeks, said constant means according.

counter ring means for providing sald vis-ted counts after counter ring means being citable board self counter near being citable board self common central soft and having counting include boreaus for dis-playing self where count, sald counter ring. If Patentanepriliche means including:

a confilinous countier fing having counting indicks Charans and gain bash haved brevenoused as an inner surface thereof and an intermediate of the surface thereof and an intermediate counter fing counting machine with seld confilinous countier grant basing counting landship have on and gase teach based charanstrand of on an inner surface breast?

on an inverse southine themself; display means through which date of ealld covering ladicis from easild counter frequences is displayed to hickness occurring or expected in the southern occurring responding to a number of bease of previously as the consense, that or member to be Cooperated, and or member to be Cooperated, and of the counter of the command of the command of the command of the contract of the command of the counter of the

is department in disptay assettive one of salt country bridge of salt continuous countres they through salt deptay resers, and the-nature salt intentitient counter ring man contract every prostate/minest annales of extracted increments of salt continuous counter drap to deptay annales are not cast country drap to deptay annales are not cast country drap to deptay more con or cast country drap to deptay more con or cast country drap or salt post more as annal post more including.

seens including:

an outor well having an outer service
and an inver service,
a passi, risegocity mentand an a drugle
place with the secur surface of sale
outer walk for arrangement of sale
outer walk for arrangement of sale
outer ring,
and saled intermittent
counter ring,
and saled intermittent
counter ring,
a passi apring, integrably mediated as a
stropp place with the intermittent
case of the sale outer sale outer sale outer sale outer
case into the sale outer sale outer
case outer sale outer sale outer
and outer sale outer sale outer
and out

1. Pulverbehabstor mit:

einer Bedseinrichtung zum Tragen von Kom-ponerten,

einer Zuführeinrichtung zum Bereithalten eines Vorseta von pulverlörmigem Material, das eus-zugeben lici,

einer interlationsleitung, die in eine enste Rich-tung wedluß und wereitzi gegenüber der Zu-fehreinfattung positioniert ist,

einer Ehrichtung zum Überführen einer vorge-gebenen Menge des pulverförnigen Mitterlate eue der Zufichreinrichtung in die Inheistionstei-tung.

einer Dissenserfcrüng zum Reduzieren von Tallchergrößen von Aggiomersten des pulven-förmigen Matiertes aus der Inhaldenselbung, sem mitternisiere gelenformigen Matieria zu böden sed im des mitoonisiere pulverförmige Autstell zu Raughalt zu vertreichen, wohal die Düssensierichung aufweitet.

eine Hothrasmeinrichtung zum Ändern der

EP 0 823 415 B1

62

Filabiliting des Pulves aus der ersten Pictrang der Inheistendelburg in eine zweit, no der ersten Pictrang der Inheistendelburg in eine zweit, no der ersten Pictrang ersten P

Chemiand verbunden 4s.

dies Altragewindstang de von der doenet Ward de Chüng ungebond engelt,
us de Falkfritzeng der Peinen van der
preibes Richtung her heitenszerwindung
in Wesenschen prück in die entze Richtung ze drein, wohl die Altragewinden der Altragewindstang der Meiberg ertung einer mitten Richtung deren
verleid, und

eine Venchkankappensbrichtung zum Abdocken der Zußinseinlichtung und der 20 Chanelnichtung.

(a) de Zuhreehrichtung eufweist;

who Pulvergehbanehrichten, die einen Reservehricher unbest, der eine Verschaften unbest, der eine Verschaften seine der eine Verschaften seine der Perseptitiensehrichten bewicklie, wohal die Perseptitiensehrichten gewichtlichten geweinschaft gewein die behaltschaften unbest, und

einen Antrebetichper (120), der an dem Reservoirtinger belestigt ist, ein den Re-ervolnichper in Robstonerbeitung assa-treben, erdeit der Antrebelichper eine Behrzzeit von Ausnehmagen in seinem oberen Bereich gulmelst; und

(c) de Eintching zum Überlühne einer vor-gegebenen Mange das pulverförmigen Macengagetanes i els autopist

de Abmanchismentologi (140), un des dopmessers famps des pulsetions sont de pulsetionique sociales sociales sociales sociales sociales sociales sociales sociales sociales de Abrémis-localescottemp de de Abrémis-localescottemp de des Abrémis-localescottemp de des auto-pulsetions de de pulsetion de depuissement desput se pulsetion de de de de de de la companyation de la com

63 EP 0 833 415 B1

14. Résolnéator rach Angurich 8, dedock pr bestrainteast, dess des Antirostripre vesigitans one Antirossau-elestrary cell einen fechalitrage ((102) e jour An-tirostrainte question ((102) e jour An-tirostrainte question e (102) e jour An-phinesiatoritrage explanant ful, veladice Anti-pur verification des verifications elem Fassifi-gues dels selvents des verifications elem Fassifi-gues dels selvents de Verifications elem Fassifi-gue dels selvents de Verifications elem Fassifi-gues dels selvents de Verifications elem Fassifi-gues dels selvents de Verifications de Verific

mentionalization (EV de abgamesses no Doals association in Richarchischer) phrys trans does human de provincian phrys transport human de provincian phrys transport human de provincian phrys (200, de de l'American).

(c) de Disservincharre (200), de de l'Americantor per voiction que de l'Americantor que de l'Americantor per voiction que de l'Americantor que l'Americantor qu

84

Reinferentre der oberen Were angewenn.

11. Puberhreister esch Anspruch 10, deutsch probesonstellen der der Aussellen Word der inntelle
besonstellen der der Aussellen von der
besonstellen der der Aussellen von der
besonstellen mit Aussellen der Aussellen

12. Puberheister mich Anspruch 8, deutsch ge
ment der Aussellen der Aussellen

13. Puberheister mich Anspruch 8, deutsch ge
met der Aussellen der Aussellen

14. deutsch ge
metrig gegeben besonstellen

15. Puberheister mich Anspruch 10, deutsch ge
metrig gegeben besonstellen

16. deutsch ge
metrig gegeben

17. Deutscheister

18. Deutscheister

18. deutsch ge
metrig gegeben

18. deutsch ge
metrig gegeben

18. deutsch ge-

state gereinsamen Notebes im Randesenkti der breidelmigen consen Wende ergeerreit sind.

12. Pubreinstetter nach Anspruch 8, destend an der bezeichtend, dass weigigtzes sine der Austrahrungen anterektigen Lings als sina niders der Austrahrungen settende Lings als sina niders der Representationsper settende Lings als sina niders der Representationsper settende Lings als sina der Settende Lings als sina der Settende Lings als der settende Lings and der settende Lings

eine Watzell von zweiten Wandelbestreitem, die alste in der adalen Richtung endrecken und die enten kontaven Wandelbestreite onteinen-der verbinden.

dadesch pelosatzelcheit, chas de Abzugneio-richtung eine lesee (diverbirtige Wanddostfä-che untbast, de in de ziste Rochung verbaltende 20 Urwgeinfölligkeien aufweist.

Püherhristitir sech Asepuch I, dadurch ge-banzeitinst, dass de Urregelmäßigkeiten durch die Valzeit von an der inneren n\u00fchreiten-gen Wandchertliche gebildeten R\u00e4len gebildet ist.

Pubershinizor op: Aespruch 2, destanch pe-basezaletaust, daus de fillen gebödet sich derüt:
 es eine Metzent von entan textamen Wardeb-schotzen, de eine de statem Richting en-timaten ond einen Bogen mit einem erman Ra-dion in einer Richting amferecht zu der achten. Richting haben, und
48

4. Priverteanter etc. Averandi 3, declarch prisessandrust, dues de reuben Wandroodmüle eller totalen Goute staben et deues Bogen not ellern zweiten Ruchas in olere Platining sentracts. III in oer acidien Ruchasy orbini dar zweite Ruchas griffor sit der ente Ruchas in 16.

p

ereiral gegenüberhagende Anthebalesmetersungen und zwei Federfünger unthest, die oster nicht vor-gespenzen Bedingungen leinerhalb der beiden Au-biebassenhitzungen verlaufen.

.

geoperson Biodingungen Internatio der beidem An-bebessenheimungen verlagen.

13. Puhrushhaldter nach Anspruch 14, deuterst ge-tenszelschient, desse der Aufgeter wentgetens des spiraffamige Siese-bein sit einer Im Wesendichen quadratischen
Deutschlichspelinkting heit, mit de
die Verlichtestappensinktingung surveitet

25. Puhrushhaldter nach Anspruch 22, deuterst ge-leich, deutschlieber, desse der im Wesendichent, dass jole Rippe alse im Wesendi-riehm delecklige Querachnitzspetiel heit.

elsen ringidroripse Manei mit elser loneres Operfildres, wed

service filtres elsen Nicken, der en dinner unter-mon Brench der himmen Gestüffsche den nindig-origes Manei optibet six, um is der weni-ptame elsen optibet six der in Spektryleiben richten gen elsen vergeglichenen Spektryleiben richt gestüffsche en vergeglichenen Spektryleiben richte gen elsen vergeglichenen Spektryleiben richt generatie en vergeglichen spektryleiben generatie en vergeglichen spektryleiben generatie en vergeglichen spektryleiben generatie en vergeglichen spektryleiben generatie en vergeglichen generatie

- 20. Pubusireacidor rech Ampruch 19, dedecch go-lamazaichenst, daes jack Szendorin elem Els-gazionezich bas, die eine vertrale Feltzme des-siet, in die der verrigitzen eine flocken eingruß, zu beere eine spiest bringt bewegung das westgatens einen Nochstein bestriebt der verrigitzens einen Szeuntsche zugelsssen sind.
- Pulversteldfor nach Anspruch 19, dedurch ge-tererzeichnet, deen zwei spiral bereige Szeuerbei-nen und zwei Noctum verhanden eind.
- nes und devel house.

 21. Pubershebelour sech Americals 9, deducts ge-teamurabilitati, diese de Abrassiptisteren/orburg eine Untereste mit Rippen dernand set, desse geschung zum Heben einer Douis des purentieringen Matariatis is der Locheurichung 60 die abgumessene Dauls von-derndem int, wool die Nebesterichungen unter der Locheurichung 60 die abgumessene Dauls posi-
- 23. Pubershnatar nach Anspruch 22, dadaisch ge-brorgsafchreit, dies die Habsaleichting aus ei-sen Matriel Perpatitik ist, das aus der Grupp be-stahend ein seiner gestuchtlichen Piller, einem Schigweiter, siewe Sich ans perfesen Material und an schigweiter, siewe Sich ans perfesen Material und an schigweiter, siewe Sich ans perfesen Material und an schige der Sich aus der Sich aus perfesen bezeitet und 49. Pubershnatar
- 24. Pulverizheizher nec'h Anspruch 22, dadurch go-

59

29

EP 0 883 415 B1

bewerstehnet, dass die Habssürtsteung durch Lib-granderfachenliche ziel den Rippen verbunden ist.

- - Postionioren der geschsträßszigen Hellzein-richtung an einer vorgegebenen Postion in ei-ner ersten Formhätte, die zum Spräzglaßen der Abmessplaße verwendet seld,

Poutconium elver zweiten Formfallb engseitend en de exist Formfalle, var elve Formfalle, straten fan Formfalle, straten fan Formfalle en fan Spitzpieldes der Alterespitze serwendet wirkt, west de zweite Formfalls elve destophende Odnung is Austichtung mit der Heitselsstützung en der vorgregolessen Pusition is des andem Formfalle int.

Einestzen eines Karnstiffe durch die Ölfnung in der zweiten Formhäffe in Eingriff mit der Haf-teseinschung, um die Halbeelnschräung in Posi-tion gegen die enter Fermhäffe zu halten und ein Loch für eine abgemasene Doule in der gegessenen Abressspierze zu bilden, und

Spitzeo vee Karatsofimeariei le de Form-teerme ducto verigitarie elme Einspitze-echtese, on die Admissoficto mit dem Lech für die abgenessene Doels van mit der Helsele-richteng betredig en der Universitei der Admis-sofitto is Oberdecheeder Bestehung mit dem Loch für die abgenessene Doels zu bitten.

einen Federfroger in jeder der An-tricksauenefroungen,

water de Enrichtung zum Übertregen (180) auf-water

ring sine blabzzaki vos schlanerderfolgendes del-tem Zibren rett siner Teils gelch der Teils jedes zwitzen Zibre des tockstandrüces Zibberrings antwisch, ein des Leitstan alle schlanderfolgen-one der enzen Zibre selbrerd sechsenderfolgen-on der enzen Zibre selbrerd sechsenderfolgen-den Desimprogenationen eingelt sich eich ei-aer Mehzzaki von Oselensripsportschant mit ei-nem der zweise Zibre serd einen dicht Zibre des Internitzierunden Zibrestrips engreich. 23. Pubershalater auch einem dittee Zuhn des bienemblerende Züherings engraß.

23. Pubershalater einch Anspruch 23. dieberch gebesensschoet, diese die Bestigsungswirtzung brann eine Klaissanstratessehrichtung stemen seine Klaissanstratessehrichtung einem Ring unbanst, der debter eine Ernis lande int dem hen bestigsungswirtzung aben Ring und barst, der debter eine Ernis lande int dem hen bestigsungswirtzungswirtzung aben Ring und barst, der debter eine Ernis lande int dem hen bestigsungswirtzungswirtzung auch eine Projection eine Ernis State der Khaisanstratesig zu eine Anspruch eine Bernis der Polisianstrates der Derten der Fallsanstratessehrichtig in der Polisianstrates der Derten der Ringstrates der Scharenderfchang seine State der Ringstrates der Ringstratessehrichtig in der Projekt der Derten der Rings in die Preside, entgepengesette Dertrictung eine Erde der Derten der Rings in die Preside, entgepengesette Dertrictung der Fiche der Derten der Rings in die Preside, entgepengesette Dertrictung der Fiche der Derten der

- 26. Puberirnateir sech Anspruch 29, dederch ge-benstellcheet, diess die Mattensroen in einer aufelen Richausg des Verlatten erlentant ziret, en dass die Mattensroen geleen werten behante, wenn der Vrheibigs werteil ausgerichtet ist.
- ST, Pulvert-freison much Amproch 1, mit

eleur Pulvergehlusselertzeting (20), die die Zuführebeldstung (20) und die fehabstendel-king (20) aufweist, wobel die Pulvergehle-sselektzbung ferner aufweist:

einen Reservoirtolpes, dur einen Vorrat das pateerfonigen tärtanda (SS) enthät, 48 und

einen Artenbeldirper (120), der en dem Reservolktörper befectig ist, um den Re-servondurper in wire Robstonsstätlung zu dreinen, wobei der Antrikhildunger umbzeit company to a

aine Materiald von Acamatomorgan in alnem abane Banaka dansa.

and some site and some con-

37

ción de Letricianty (m. Lourneym (160) sinmicir

ción filomospicito-valviciónny (180) num filoreloblate eles de Egymessuren letrog des puivariantes de Egymessuren letrog des puivariantes de Egymessuren letrog des puivariantes de la consideration de la
compressore Douts zoro Barelhottes de la
compressore Douts zoro Barelhottes de la
compressore Douts zoro Barelhottes de la
compressore Borelhottes de la
compressore Borelhottes de la
compressore de la
compressore de la
compressore de la
compressore de la
color de la
color

wider die Düssenistichung an dem Anthebstütiger angebracht ist und fanser Representationigen auf-wald, die in die Aussahmungen dem Antokobstüt-puns geschiedelt sind, waber die Vorrichung enter aufwelst.

einen Adapter, der eichzehntber in Dietrag auf die Abmessphiltemeinschlung angebracht ist, wohal der Adapter untdest.

weighten eine Verlegebeigeschlei-mung zum Admittelm des verligblich ei-nen Fodelinges onfe, um die Deburg der Polespräheuwinklichung mittlich zu dem Adgert ums der Abmittellichen-nztung zu wichtdern, mit

senigram size spinitiraliya Sixone

29, Publishman mech Ampruch 9, dadarch go-tugerzeichest, dass die Baskelhrichtung aufweich

elne Zárlavnávrtízozny, die dhebber an der Busie in umgebender Buckehung mit dem Halla-serpten ergebesecht ist, vor in Praktion auf die nitübbe Drahung um Pedrugsbinsselnstüssang umd der Abronespitatenselnstürstung, eine virsules Zárlavnáv arkazári kon Benn des pel-verührnigen Materials züb Martin, die süppger 19 ben wurden der der noch sichgreine werden Löhnung, wobei die Zählersleintstütung umbesst:

eine Záhlandingsinvichtung, um die vieusele Záhlang zu teitern, wobei die Záhlands-pelnichtung zu die gewindungen Michaelse derbeit eit und Zöhlandingsinderen hat, um die vieusele Záhlandig autoratigen, wobei die Záhlandigsinvichtung umbassit: zu

anivelat, de orthadroid on elver tomartitathe dievon areporthet sied,
elvie Anzelgebritchtung, diezt, die elvie de
Zäärmetterungen der Zählertrigsstrichtung
elvie neine Zählert erspetrechend
elvie Anzelgebritchtung, diezt, die elvie de
Zäärmetterungen, die gepanden eine Anzel von Dosen die pubentimigen
klabertels anzelzeigen, die gepanden eine, end
elvie der die soch zu spenden eind, end
elvie Belzitzungsehrichtung zum schrittmeis en
elvie Belzitzungsehrichtung zum schrittmeis en
elvie Belzitzungsehrichtung zu en der Zübertrige einzeletzeletzen der Anspruch 29, diedurch gehanzeichten, dens die Zählertrige schemit dem Züberte des Belzitzungsehries,
zwie der Schrieselertrichtung verlage, die
ent dem Zübertriselertrichten Zählertrige schriptet,
eine Zübertriselertrichtungse derste angesorden sind.

34. Pulertribelitzte nach Anspruch 29, diedurch gehanzeichten, dens die Zählertrige schriptet,
eine Zübertriselertrichtungse derste angesorden sind.

35. Pulertribelitzte nach Anspruch 27, diedurch gehanzeichtung bereitlichten Zübertrige schriptet,
eine Zübertriselertrichtungse derste angesorden sind.

36. Pulertribelitzte nach Anspruch 29, diedurch gehanzeichtung derse Anspruch 29, diedurch gehanzeichtung

Peignehrichtung antutriges, und um des Ersettlerenden Zöhlerfes bei jeder verspraheren Anzelf ver Ohlsberengsschröße des totschaferborn Zöhlerfes dess Schröße under zu deben, um dies anden der Zöhlerfes dess des Schrößes des bissettlicher genzeitigen, waheit zu debendrenden zöhlerfes dess die Anzelgesehrbang anzeitigen, waheit die Söhlersehrichtung unt zeit des Schlersehrichtung unt zeit des Söhlersehrichtung unt zeit des Söhlersehrichtung unt zeit.

sine fuitere Wand mit einer Bufferen Ober-Ditche und einer etteren Oberfäche,

eine (Dinks, die einstücktig mit der Antieren Oberfläche der äußeren Wänd gegossen ist, zem Engelf mit des Zähnen von einen von dem kontinsierlichen Zählentrig und dem letzenstützesoden Zählentrig, sent

eine Künigeteiser, die einstücktig ein ein Süch mit der konzen Deutfalche der Bu-dernn Wend gegessen ist, und die Klintse der Engell mit dem Zähnen des bartinsierschen Zälleining und die Internöhnen-den Zälleining zu die Leinstelleren-den Zähleringe zu dichten, webel die Nüt-bunfelder sich endang einer abgemeinses nachelen Richtung entzeicht.

- einen barditulerlichen Zühlerding mit Zühlerschleungen dessalt und mit ein zühlerschleungen dessalt unt mit ein seiner beweitlichen untstußend auge-archieten Zühlers, und #9 mitsel Ufdreige Gestalt bat,
- elsenistemitiliserden Zübering der bondel in dem kontrukerken Zübering der bering engebnisch ist und dasse eige-bringen züberinds und Züberinden zur der bei der bei der bei der bei der engebnische Züberindend en einer be-neufläche diren engeordnet eine.

EP 0 883 415 B1 61

wchei die Verschlasstappeneinschung (SZI) duze auspezielbei ist, um den Pelverfrheizer ich den Be-trath vorzubereiten, wchei die Verschlasstappen-einschtung außenke:

eller Verbusskungseindritzung zura Dminan der
Polwergeinkosseindritzung zura Dminan der
Polwergeinkosseindritzung in der Weilen, dasso
die Iristationsteilung in Verbindung mit der
Luchsin/steinen gibt die ebgeweisen Dosis
ist, sesen die Verschlasstategeneinstritzung aus
öwer ableckenden Bestehung von der Pulvergebähneseinstzitzung estämst selet, und zu

Verbind der Pulvergeinkosseinstritzung in der
Verbind, dem des Irrelationsteilung aucher Verpultungen des des der Polwergeinkosseinstritzung
bestellt eind, vobei des Verbarenbergeinstritztung verligstrat einer Verligsreingensemacht erweingeinze einen Verligsreingensemacht erweingeren dem Verligsreingensemacht erweingeren dem Verligsreingensemacht erweingeren dem Verligsreingensemacht und der Abresspelanseinsträtzung en

der Verligsrein dem Verligsreingense
mit verligsreine dem Verligsreinenseiterzung en

entreglichen, und un in Erngel ein der wereig
dem eine Northeinstandund werg zu

örten von

der Abresspelationseiterzung zu

entre

Abresspelationseiterzung zu

der

Abresspelationseiterzung zu

der

der

einen anglämigen Martal auf einer Isseren Cheffliche, und

se vanigitares einen Mochan, die an einem ertz-nan Bewich der kinneren (Derfülche des ringti-ralges Mattale gebildes Ixt, ern in der werdy-senes eines epital berriges Stauerbeten zu bas-fen.

uchei die Basselrichteng einer aufsi verteufzeiden Hättezplas deren aufweist, der besoiel zu der gemainsenen Achte Begi und alztatischer sit der 44 Absenspfaltzmätstetteng verbunden ist, webei die Vorstehung weiter aufweist.

else ZMernierichtung, die deelster en der Ba-els in unsposender Busistang mit dem Hetz-zelben angstonster las, van, in Pereichte mit der retelse Destang der Pereimpstonseissch-lang seid der Abstenspillumeinschleren, eine vissele Zielning der Aurstriese Dosen von porcommunication of recognition (Colon Von pol-verifications Mitterfall, the abpopulate worden. 29 shall other the north appropriate worden tolerane, anticologies, would the Ziloteraholdstrang auti-

22

sine Zähtechtgelnrichtung, um eine vieuel-te Zähten zu Briten, wobei die Zähtech-gelnrichtung dreiber um die gemeinsame Achse bit und Zählmentierungen dersch latt, um die vieuele Zähteng entstreipen, wobei die Zählestingelnrichtung umfosst:

einen tontoulertonen Zinterring mit Zilbrinddeunigen daren und mit an seiner Inneren Oberfliche umleutend angeordneten Zähnen, und

einen interniziturenden Zählerring, der togsdei mit dem tendrulerlichen Züb-lerfing angeerdnet ich und daran ange-brachte Zählmerkterungen und Zähne achweist, die untsistend en einer in-nestläche davon angeordnet eind.

sine Aureigneinsträung, üuch die sine der Zilltranderungen der Zillseringeinfortiling ungsweigt eint, ein eine Zillstag entgeschend einer Auzuld von Desse von petreiflichigen Internet entsträtigen, die gespendet worden eind oder die noch zu spenden webleiben, und

cied oder die noch zu spenden verbeiben, und
alle Beitzigungseinnten grun achtbestein
Derhan der Zibiertragsprichtung zum achtbestein
Derhan der Zibiertragsprichtung in Redicion
auf der stahre Dratung relecten der Picturschanzsseinklichtung unt der Picturphrassprichtung unt der Picturphrassprichtung unt der Picturden Spenden des Beitzigungsweinkrünzes
des Rübizigseinschang zibiertrag sind
Zibiertrag eine Stuffertrag sind
des Internationen Zibiertrag sind
der beitzigseingen
katernation gestellt
der unter der Stuffertrag
der der
Zibiertrag deren Bertriff zu dehen, bei jeder
zurgügsprasse Anzul von Dreisschlichten
Zibiertrag einen Bruft zu dehen, bei jeder
zurgügsprasse Anzul von Dreisschlichten
Zibiertrag einen Bruft zu dehen, bei jeder
zurgügsprasse Anzul von Dreisschlichten
Zibiertrag einen
Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

Zibiertrag unter

aine Authern Warst mit einer Autheren Ober-Däche und einer eineren Oberläche,

eine Kürne, die einstückig mit der Außeren Oberfläche der Außbren Wassi gegossen Ist, zum Engriff mit den Zitnen von einen von dere issolinderfohren Zinherting und dere belanstitterenden Zinherting, und

atra statustadas, de alrestados da atr

٠. ٠٠

- 1. Innatation de poudre, compre

 - on moyen de base destiné à supporter des compresants :

 un moyen d'altrectation destiné à contains une preferenction en motion en paudre à distribure ; un conduit d'intention étatoritées dans une premise descoin et place dans une dispessible es peudre des les esposés dudit reque n'étamentaine ; un moyen destiné à transporter une questié prodestantées de latice matière en poudre de-chi moyen d'infentation cette conduit c'habitation ; un transmit base destiné à réduire des un pluralité de secondais sections de partir état des montes de la réduire des et peut un se d'un première reçoit dans une d'exclor transmets à habite direction soble et et peut un se d'un première reçoit dans une d'exclor transmets à habite direction soble et et eure pluralité de secondais sections de partire des latices actions de et eure pluralité de secondais sections de partire des latices actions de et eure pluralité de secondais sections de et eure pluralité de secondais sections de et eure pluralité de secondais sections de partire d'exclor transmités à batte direction soble et néties extreme transmit batte d'exclor exclore de partire d'exclore des la réduir de exclore de partire d'exclore de exclore d'exclore d'exclore d'exclore de exclore d'exclore d'exclore d'exclore d'exclore d'exclore de exclore d'exclore d'exc

 - de Implies d'azonazione accordi describe de produce de la contraction de mobiles en product à producte de pout de producte d'apportant de mobiles en product à partir de conduit d'arbitation pour toureur une accordin de pout de la mobiles per la fait que lectrice de la conduit d'arbitation pour toureur une existe de product de situation de la mobile de la mobile de la conduit de la mobile de la mobile de la mobile de la conduit de la mobile de la conduit del la conduit de la conduit del la conduit de la conduit de l
 - versus à la libit direction acide, soll second report
 de leche prevision direction dans condust
 de leche prevision direction, soll
 mayor hormat considerate de la libit per unite
 de leche prevision direction, soll
 mayor hormat condust describtion dedifferent de la libit prevision de leche prevision de leche de leche prevision de leche prevision de leche prevision de leche de leche prevision de leche prevision de leche prevision de leche de leche prevision de leche prevision de leche de leche prevision de leche prevision de leche prevision de leche de leche

- Inhalates de peudre selon la revendocicion 1, co-positifica per la full que hacitas insiguientés cont formées par une pluzalité de cannelures est factas enface de passi habilatire listeme.

- et une pluralité de secondes sections de parai n'étendant dans ladde d'rection schile et raides mutuellement excellus premières sections de parai conceve.

(a) inch movem d'affrentation compressed :

65

- an carps of estillaturence (120) this such corps do reserve dested à estudies sed propo de réserve dested à estudies sed propo de réserve des ses seus de retraine, ledit corps d'estrainement inchers une plurable d'évidements desse se partie applicaure; et 12
- sure inclaims:

 un recycle formant places de mesure (120)

 un recycle formant places de mesure (120)

 un recycle formant places de mesure (120)

 de lection à contratte aux quantités mesures

 de lection active en quantité places de mesure places de lection motive places de mesure places de lection motive places de mesure places de lection sortier places de mesure places de lection places de lection sortier places de lection places de lection places de lection sortier places de lection places de
- (c) us mayor bornest reason (200) reposent of han ver Fauth sick mayor borners plaque do measure at ledd mayor borners plaque do product of (c) ledd mayor bornest base facts month au-self cope shortness pour neavel ledds of quertilo measure do ledds makken or pouche par liferantician de ledds makken or pouche par liferantician de ledds makken de mayors of moyers formed base include de mayors something measures souther date include debts severa duel nore distributions.
- 10. Inhalatour de peudre selon la revendication 8, co-nactiviel per le fait que ledit corpe d'entraînement comporte une parait applificate, el lancita évide-mente sent aportos le lange d'une patie périphiéi-que de lacite parai supérieure.
- 11. Exhalataur de poudre selon la revendication 10, ca-

- 85
- ledi impres d'alfrescation compressi ;
 un mitjen formest biotire de pouchs lechant un copre de réservoir certainest ses
 rémineration en mainte en pouchs à daté
 becturé in extre le coprés d'éveluires ;
 d'un copre de réservoir (125) bit sand
 copre de réservoir dans la éveluire le direction, le colt coprés d'entres le répartir par le fait que trois partir partiriphique de touties partir explicitures chroniterre de la montre le coprés d'éveluires ;
 d'un copre d'extres pour lois ne le coprés de la mitje d'entres pour
 copre d'extres de corrècte d'extres pour
 coprés d'extres d'extres pour
 coprés d'extres de la mitje d'extres pour
 coprés d'extres d'extres pour
 coprés d'extres pour de la mitje d'extres por
 coprés d'extres d'extres pour
 coprés d'extres de la mitje d'extres pour
 coprés d'extres d'extres pour
 coprés d'extres d'extres pour
 coprés d'extres de la coprés de la coprés d'extres pour
 coprés d'extres d'extres pour
 coprés d'extres d'extres pour
 coprés d'extres d'extres pour
 coprés d'extres pour
 copré
- ums pluratio dividemento core se parte se plante espánses y se .

 (b) lacti croyen destiné à transporter lacto questio produtemente de lactile matière en pouche richame ; se .

 en croyen formant plaque de mesure (180) destiné à contant une quantité mesure (180) destiné à contant une quantité mesure (180) destiné à contant une quantité mesure de lactile matière en pouche, lactil croyen formant plaque de mesure (180) destiné à contant une quantité mesure de lactile matière plactique desciné desciné meyers formant entreveu de lactile mesure desciné desciné meyers formant entreveu de lactile mesure de lactile mesure la matière plactique desciné denteste.
 - - ledit copp d'entimierante compression à comitte de la copp d'entimierante compression de mainte
 le de la copp d'entimierante compression de dela
 le de la compression de la compression de la color
 le manori (183) dens chaque évidentent
 d'entimierante ;
 us eduptateur est monté himitatiera ;
 us est le disconsidante de exiden un sontée de la contéen deut de la contéen deut de la contéen de la contéen deut montée de la contéen deut de la contéen deut montéen de la contéen deut de la contéen deut en compression en la contéen de la con

EP 0 883 415 B1 63

tation dust mayor tomant bottler de poudre per report audit mayors tomant plaque de me-ature et pour regiger feet, les notes un évide-ment d'estratement pour faire tourner ledit enyes formant bottler de poudre par report é-autir mayors bottler de poudre par report é-autir mayors bottler de poudre par report é-

- Till, invaliant de practive salon le revendación 14, departicipa per le hal que ledi corpe d'extrahement
 includes proposa salon le revendación 14, departicipa per le hal que ledi corpe d'extrahement
 includes proposa de combination de
 includes proposa de participa de combination de
 includes proposa de participa de combination de
 includes proposa de participa de combination de
 includes proposa de la proposa de
 includes proposa de la pr
- 19. Inhibition do poudre sides is evendication 14, cocuclificide par le fait que chapus nervue d'amocipale local vers partie luchite exploiteurs et une
 partie luchite septiment et builde per
 te en septim, de corte que luchite en cruire un
 doig de maiert hos deut en maine us évidanment
 des verenditiques penders le leithet duct moyen for
 ment couverch de famousin de boilde deposition
 de recouverment, it que luchite penders leithet et definered or
 en mountes, it que luchite penders leithet per
 routings penders le interfer luchite unitview republis inhabiteurs built exclusive luchite
 en mountes, leit innées en de luchite unitview routings penders le interfer definerant de veroutings penders le branch ducti copyes formant
 overwoch de famousine dans builde disposition de
 encouverment, et que luchite production de
 encouverment.
- 17. Inhilitatur de poudre seton le revendication 11, cir-endiché par le tait que change di doig de matori (103) inche count pel repai ledre parse se callés tenque ledr enyon lament convecté de termature and completemen tol dans ledits disposition de m-couvrement.
- 13. briefector de providre action le reventification 14, coescalairel peur le luit que sello corpa récombinance d'entrainleviet desse dévioures d'extrainlements d'extrainlement opposés et deux décigs de respont d'élection
 à l'instruct entrait deux sello se responsés d'extrainlement dans un écte son reppeils.

 12. Entraiteur de prusée sello la respondation 22, coestimation de par létrainlement desse de l'extrainlement desse de l'extrainlement de la recombinance d'extrainlede l'extrainlele le combinance d'extrainlele de l'extrainlele de l'extrainle
 le de l'extrainle
 de l'extrainlele de l'extrainle
 l'extrainle
 de l'extrainle-

- interfesare, et de moine une came termée eur une partie latérieure de la authon intérieure de la jape anneties pour autres latérieure de la jape chamin de came hélicofési.
- 13 21, bhástana do poudre asion la revendicación 19, co-recisirlas per la full gull comprend deux desdita clumaire de carrie háliculduxx al cleux desditas co-men.
- - cichina per la falti, que :

 dedit invejen lormassi plaque de missure comportes un cobil inférieur portent dan serveres ;

 un moyen de contamenos permidethe aus gas est pulses peur carelador una dana de lacido metilere en poudre dans selet meyers lormanst treus de des mesurels, elde moyen de commente de tent place de andessous dudit moyen lormanst treus de des mesurels, elde moyen de monest les de des mesurels, el compos de commente de tent despertadors de contamence cará place de tent de des des de la compositio de mesure de despertadors de contra el accostica menures quel proci de la facil moyen de contempos ent mande accostica de la facil moyen de contempos ent mande accostica de anexios de succio de la estada escolar de anexios de succio de la colora de la colora de anexios de succio de la colora de contempos de la colora del la colora de la colora del la
- 23, Intelestour de poudre selon le revendication 22, ce-repositate par le bili que leuf moyen de continue-ce est constable d'une artificir clossie à partir de-graçae constable d'un Dire promisible se gas, d'un pues constable d'un Dire promisible se gas, d'un pues continue d'un Dire promisible portune di cha démest inormes prisone partirile.
- It invitation is process sales to remarkatable 14, conucleiving are to be que:

 White expenses sales as males an charate de
 which expenses sales as configuration on

EP 0 883 415 81

. Inhabition de positie salon la revendication 22, co-socialité par la fuit que ledite plaque de meuve et ledit dispositif de matière permissible se par sont réalisés par les étupes, dans lanquelles;

- excidende par le hall que ledite plaque de mesure et ledit deposit de maride parménite se par sent risitées per les étapes, dens lesquelles;

 qui place ledit contenuer plannésible se par à le une position prédéeminés dans se pramise deminence stilles pour moutige par injection de ledite plaque de masure;

 on place une second deminencie adjacent durit. Propriée deminence deminence adjacent durit prantier deminence pour lemme, entre est, use observé de mesure, but accord deminence pour lemme, entre est, use describe de mésure pour lemme, entre est, use describe deminence poussibles pour moutige par legitories de lettre plaque de mesure, lucit accord deminence; on introduit une portes pour reposition service à l'invention de le pour lemme se la lieu province de mesure, le chi province deminence pour le lettre pour lettre de la mesure pour mission à les contenues que position contre lettre pour lettre lettre pour lettre lettre pour lettre lettre lettre lettre pour lettre le lettre lettre

 - 28. Inhalacus de posche salos lo reverdicación 27, ce-notiferia par le bat que lactio plaque de manere maitre comprose un electrome par primato tama maitre comprose un electrome par primato tama de niesso de son dels inaplans dans cine disputicion d'indivincipa por reporti audit les os de due conte-rior, el todi contenere de poschi o des dimusiona apprinteres audit tros de cons dessude porci ca-vi comprisement lacifi tros de close resusole si la larimente audit delsegament pur primato para lovo tada a lucion parapara del consulta di electromes pero
 - 49. Bristichier de poudre salon le revendication 9, ca-miciarisé per le tait que incit stoyen de base compressi :

 - on base portant on plast do mainten et Eus-dent subservent countil south are construir et relei innocelle en motation and inneys horosest phages de present qualitate attenté motativ en couden ser lactio base dans une déparation de résolucire par sepont audit plus de mainten, servent à houste en course viewel du noutre de quare distribute, au restant à d'authorise, de

-

ladita matière en poudre en réponse à ladita re-tation retuthre dudit mayen forment bollier de poudre et dudit moyen forment plaque de me-eure, ladit moyen forment compteur incluent :

70

on mayon forment began de compteur des-tido à fournir lecti compte vieuset, lecti meyon formest began de compteur pro-vent tournir action desti cos central com-mus es pontas des replans de compteu-pour attichage dudir compte vieuset, lecti enques borransi begus de compteu-lectuals :

- une baque de compteur continue por-tant due repêres de comptege el des dents d'engrenege, formées antour de celle-ci, eur sa eurisce intérieure, el
- test des reperts de l'explanya et de l'explanya de l'explanya de l'explanya de l'explanya de l'explanya de comptant d'explanya de comptant cardinne et pertant des replets de comptant exclusive l'explanya de l'exp mare deschi repires de caregiage de todie begun de coregiaur discricius per fiscionidative dudi copus d'al-

23

EP 0 683 415 B1

n

- 23. Behaltour de proudre selecte la revendicación 23, conpost de les larges accompanse combines dont a d'empresapor de la larges de companse combines notes agéncles en correspondance avec lascida replanse de
 compange que la selecte larges de companse complause d'exocupation por la companse produce companse por la selecte d'empresagencées en comptiguidações evec lascida replanse
 de comptigue girále porte.
- de complage grifile porte.

 34. Inheliciture de preudre selon la revenicitation 25, conrecidirele per la fait que las dentra d'emprenage de
 lachte laque de compleur contrain schareln une pluristat de president desta d'emprenage accusables
 d'une previage production et la minele surs describune dest d'augrenge desta d'auditire protoncier appliration. Joueze des deschieres protoncieres
 poliritation, Joueze des deschieres dest d'emprenape étant places acrès changes nombre précidentifi-

and describes previolente derich d'engrennage; a la factu-bage not comptime d'accordeure hiché ense plurablés de présidente entre d'engrennage accordente de productione figité à la proluticiaux de chaige dissi caucitons deri refreguence de la facto haques de comptimes continue, de soits que hallé chiques d'app-ge colles, accordentes, describes miser d'arreguence accordentes, describes miser d'arreguence et une factor previous accordentes des d'accordentes des d'arreguence et une traisières desse d'arreguence et une traisières desse d'arreguence et une traisières desse d'arreguence et une plura-tité d'applicatione de diange.

- inclusificity

 the particle continuence comportant
 the function extensions,
 the closest services,
 the closest services,
 the closest services and the services of the composition of the composition of the composition of the closest of the composition of the closest of the composition of the closest of the c

un corps de réservoir inclusant une altimen-ustre en mutière en poutre (EZ) et un corps d'actritémenne (120) fiste aucêt corps de réservoir pour arcestines techs corps de réservoir dans un seins de orb-tion, lacili corps d'arteréservent incluent ;

una pluralité d'évidements dans se partie aspérieure ;

dans inquel tada moyen de transport (190)
comprend :

73

in mayor littered plaque de messure (180) des-be à costenir une quantité ensuales de lectio-matière se poutre, leut mayor homest plaque de le masure lecture en recyce homest bou de does mesure lecture en recyce homest leut de does mesure pour content la clie quantité me-sure de la balla matérie en puache, leut moyen homest plaque de mesure pour est être placé de ar-chasses la blos almeracidos en matière en poudre, et leut moyen borner bother de poudre pourret tourner frum par report à l'autre de me-nière bidenchevales souar et mu au contrai de commun de sons que leut moyen homest trou de doas mesure poud des préci delactivement en communication fluide sent sotte attentab-tom en mésies en poudre se suce toté conduit d'halaction, lect moyen homest plaque de ma-sers comportant un côté la feller portant des services;

tion en misible en preudre se sence teol combiné d'inhibition), leuf impreud in mere par d'inhibition, leuf impreud in mere par aux comportant se côté litéritur portant des manures en contracte au côté litéritur portant des manures et la mayer de contenir une desse de builds masière au poude deux leuf, mayers homaters de ser cesserés. Au forçair de contenir de la manure de contracte de contra

dans lequel lect moyer forment base est 49 monté au lecti corps d'un'archiennest et comprend en quire su moyer tormain services accid dere les-cités évidements outé corps d'extraferement; le dispatal comprehent en outre ;

un edaptateur moréé l'evrobile en rotation per rapport sudit moyen frament plaque de mesu-re, locil edeptateur inclusat.

te moire un évidement de verouillage #0 destiné à y receveir tedit en moire un dolgt de ressort peur emplécher une rotation du-dit mayen farmast boliber de peudre par

rapport audi edoptioner et aude moyen terminit plaque de mesere, et su moins un cherch de caros hélicolosi syent une configuration de section trans-versale constiturant carrier;

dans loquel tech mayon bussent couvertie de fermeture (520) and agencie pour amorcer lecht b-festatiour de possive pour utilization, lecht moyen tor-mant couverche de fermeture incluent ;

74

us moyen d'arrompin destiblé à faire laurer lectif reviges formest bollier de proche de sens que sed create d'inhelaction est en commen-cacion avec leuf meyen formant lors de desse researche largue bott creups formant conse-cie de lementer et act plus dans le dispetition de mouvement per regioni acti accepts for-ment bollier de poudre, el à faire burerer leuf conjus formant bollier de poudre de sente ses lectif conduit d'inhelaction set tierre de commen-tation en le service de la commentation en le commentation en le service de disse moyen horners toolter de pouden de soris que entire contract hirterion est brei de communication erre test moyen benares trou de dons mesurels coppe loist mayen formars convenica de lammature est fica deus sins disposition de poudes, sedit mayen d'amorque entrais tous morbes une entre audit mayen frammer botter de poude, sedit mayen d'amorque entre la richies de morbes une entre d'amorque entre la richies de un robes en fechiorent de verroritique ducti deur protes en fechiorent de verroritique ducti deur principar en debter de peudre par report audit mayen femare ficilité de poudre per caperi audit mayen femare ficilité de poudre per respont audit mayen femare ficilité de poudre per respont audit mayen formar ficilité de la formatie sur rendes ser come ser come sont en un une partie intérnate de came l'attoclate;

ditre lequel tedit moyee de base porte un pied de maintee d'étendant subsement consul audit aux commes et railé immobile en sotation audit moyen formant phaque de mesure, lecit dispositif compre-nant en outre :

we moyen formest complete, month mobile on robotion are leafle base done tree dispection are leafle base done tree dispection frameworks are report such pile of matrices, deaded founds to complete do matrices, deaded founds to complete do visual da rombre de datase distribution, on tratest à distribution, de b-dita matière au proudes, se réportes à la facilit exclusive solution de la facilit moyen formest plaine de proude se d'autil moyen formest plaine de proude et d'autil moyen formest plaine de la facilit moyen formest plaine de la facilité moyen formest plaine de la facilité de la facilité

EP 0 583 415 B1

37

in moyer tomast targue de-comption de-thé à terrir tedit compte visual, tedit soyer tomast tegus de comption pou-men ay potant des replaces de comptings per affattep des replaces de comptings per affattep des compte feutes, le di moyers formest tengues de comptieurs lockant :

pro trops de complane continua por-tras des replete de complane el des desta fregmengla provides, altané de catal fregmengla provides d'accerdan-ne tagus de complane d'accerdan-ancias caedialment à l'otto largue de complane contrate el professi del represego, limites actions de code-dure se autoca interfesso;

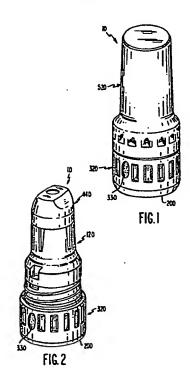
reprise de correction et lans desta fragressos, hamiles autour de colled, av si autous intérieure ;
ave se surface intérieure ;
ave se surface intérieure ;
ave se surface de correction de colled, ave se surface de correction de colled, ave se surface de correction et
de college de college de
de
college de college de
de
college de college de
de
college de
de
de college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
de
college de
college de
de
c

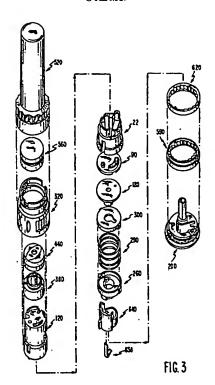
us paral existence comported use suffice existence of time sur-tical failness.

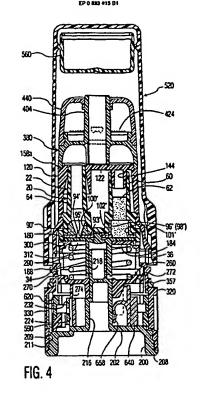
22

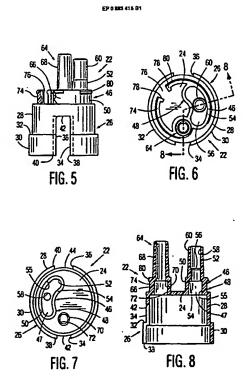
The section of the seal tensor, and the seal tensor, and the seal tensor is not up pickes switper, even is serious settlement de techs provident excellence. Deservant de seal tensor arrogatement resolute.

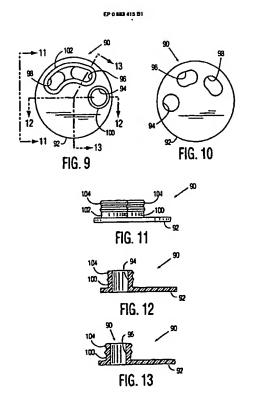
EP 0 880 415 B1

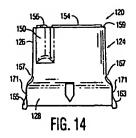


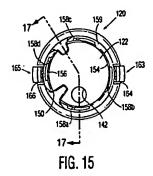


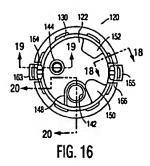


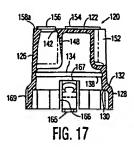




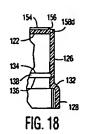


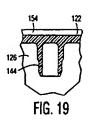


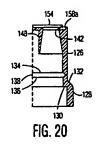


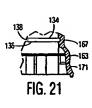


EP 0 683 415 B1

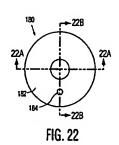




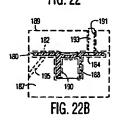




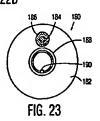
FP 0 883 416 R1



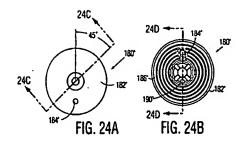


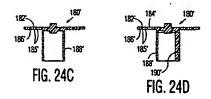


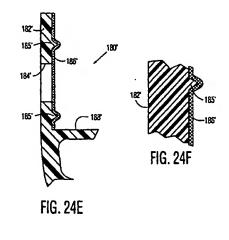


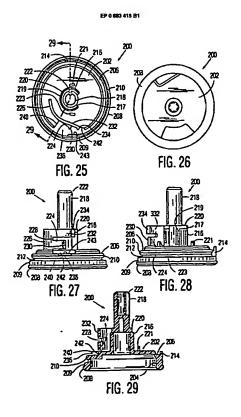


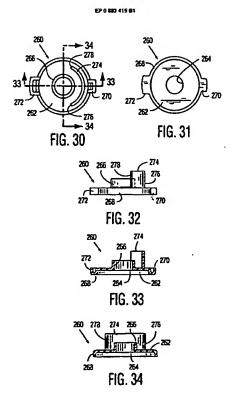
EP 0 (223 415 B1 EP 0 (223 415 B)

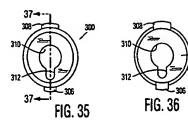


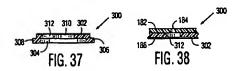


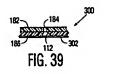












EP 0 883 415 B1

